



**AIR POLLUTION CONTROL DISTRICT OF JEFFERSON COUNTY, KENTUCKY**

**TITLE V OPERATING PERMIT**

Permit No.: 155-97-TV

Co/Plant ID: 0870

Effective Date: ## XXXXXXXXX 2001

Expiration Date: ## XXXXXXXXX 2006

UTM Northing: 4225.0

UTM Easting: 618.0

SIC: 3634

NAICS: 33522

AFS: 00870

Permission is hereby given by the Air Pollution Control District of Jefferson County to operate equipment located at:

**GE Appliances  
Appliance Park  
Louisville, Kentucky 40225**

in accordance with the permit application on file with the District and under the conditions in the permit. This permit and the authorization to operate the emission units listed shall expire on midnight on the expiration date shown above. If a renewal permit is not issued prior to the expiration date, the owner or operator may continue to operate in accordance with the terms and conditions of this permit beyond the expiration date, provided that a complete renewal application is submitted to the District no earlier than eighteen (18) months and no later than one-hundred eighty (180) days prior to the expiration date.

Applicant for Permit: GE Appliances

Responsible Official: Richard F. Segalini

Title of Responsible Official: Vice President /PQM

Date Application Received: 21 April 1997

Date Application Administratively Complete: 12 May 1997

Date Public Notice Given: ## XXXXXXXXX 2001

---

Reviewing Engineer (23)

---

Air Pollution Control Officer

**TABLE OF CONTENTS**

Abbreviations and Acronyms .....	5
Preamble .....	6
General Conditions .....	7
Emission Unit U01: Powder Paint Bake Oven .....	14
U01 Applicable Regulations .....	14
U01 Allowable Emissions .....	14
U01 Components .....	14
U01 Additional Conditions .....	15
U01 Comment .....	15
Emission Unit U30: Powder Paint Ovens .....	16
U30 Applicable Regulations .....	16
U30 Allowable Emissions .....	16
U30 Components .....	16
U30 Additional Conditions .....	17
U30 Comment .....	17
Emission Unit U40: Rack Prime Dip .....	18
U40 Applicable Regulations .....	18
U40 Allowable Emissions .....	18
U40 Components .....	18
U40 Additional Conditions .....	18
Emission Unit U42: Fluid Bed Rack Coater .....	21
U42 Applicable Regulations .....	21
U42 Allowable Emissions .....	21
U42 Components .....	21
U42 Additional Conditions .....	22
Emission Unit U55: Condenser Paint System .....	27
U55 Applicable Regulations .....	27
U55 Allowable Emissions .....	27
U55 Components .....	27
U55 Additional Conditions .....	28
Emission Unit U65: Powder Paint Bake Oven .....	30
U65 Applicable Regulations .....	30
U65 Allowable Emissions .....	30
U65 Components .....	30
U65 Additional Conditions .....	31
U65 Comment .....	31

Emission Units U74 - U76; U78, and U80: Coal-fired Boilers 1 - 5 .....	32
U74 - U76; and U80 Applicable Regulations .....	32
U74 - U76; and U80 Allowable Emissions .....	32
U74 - U76; and U80 Components .....	32
U74 - U76; and U80 Additional Conditions .....	33
U74 - U76; and U80 Comments .....	36
Emission Unit U79: Ash Handling/Conveying/Storage .....	37
U79 Applicable Regulations .....	37
U79 Allowable Emissions .....	37
U79 Components .....	37
U79 Additional Conditions .....	37
Emission Units U81 and U82: Gas-fired Boiler 6 - 7 .....	40
U81 and U82 Applicable Regulations .....	40
U81 and U82 Allowable Emissions .....	40
U81 and U82 Components .....	40
U81 and U82 Additional Conditions .....	40
Emission Unit U87: Gasoline Storage Tanks .....	44
U87 Applicable Regulations .....	44
U87 Allowable Emissions .....	44
U87 Components .....	44
U87 Additional Conditions .....	44
Emission Unit U89: VOC Storage Tanks installed before 1 September 1976 .....	46
U89 Applicable Regulations .....	46
U89 Allowable Emissions .....	46
U89 Components .....	46
U89 Additional Conditions .....	46
Emission Unit U90: VOC Storage Tanks installed after 19 April 1972 .....	48
U90 Applicable Regulations .....	48
U90 Allowable Emissions .....	48
U90 Components .....	48
U90 Additional Conditions .....	49
Emission Unit U91: Lime Silo Filling .....	50
U91 Applicable Regulations .....	50
U91 Allowable Emissions .....	50
U91 Components .....	50
U91 Additional Conditions .....	50
NO <sub>x</sub> RACT Plan .....	53

Solvent Metal Cleaning Equipment .....	58
Applicable Regulations .....	58
Allowable Emissions .....	58
Components .....	58
Additional Conditions .....	58
Permit Shield .....	60
Off Permit Documents .....	60
Alternative Operating Scenario .....	60
Source-wide Hazardous Air Pollutant Speciation .....	60
Insignificant Activities .....	61

### Abbreviations and Acronyms

AC	- Additional Condition
AFS	- AIRS Facility Subsystem
AIRS	- Aerometric Information Retrieval System
APCD	- Air Pollution Control District
ASL	- Adjusted Significant Level
atm	- Atmosphere
BACT	- Best Available Control Technology
Btu	- British Thermal Unit
EC	- Degrees Centigrade
CEMS	- Continuous Emission Monitoring System
CAAA	- Clean Air Act Amendments (15 November 1990)
cf	- Cubic foot
DOE	- District Only Enforceable
ESP	- Electrostatic Precipitator
EF	- Degrees Fahrenheit
gal	- Gallon
HAP	- Hazardous Air Pollutant
Hg	- Mercury
hr	- hour
lbs	- Pounds
l	- Liter
MACT	- Maximum Achievable Control Technology
m	- Meter
mg	- Milligram
mm	- Millimeter
MM	- Million
NAICS	- North American Industry Classification System
NSR	- New Source Review
NO <sub>x</sub>	- Nitrogen oxides
NSPS	- New Source Performance Standards
PM	- Particulate Matter
PM <sub>10</sub>	- Particulate matter less than 10 microns
ppm	- Parts per million
PSD	- Prevention of Significant Deterioration
PMP	- Preventive Maintenance Plan
psia	- Pounds per square inch absolute
RACT	- Reasonably Available Control Technology
SIC	- Standard Industrial Classification
SIP	- State Implementation Plan
SO <sub>2</sub>	- Sulfur dioxide
TAL	- Threshold Ambient Limit
TAP	- Toxic Air Pollutant
tpy	- Tons per year
UTM	- Universal Transverse Mercator

Permit No. 155-97-TV

Plant ID 0870

VOC - Volatile Organic Compound

### **Preamble**

Title V of the Clean Air Act Amendments of 1990 required EPA to create an operating permit program for implementation by state or local air permitting authorities. The purposes of this program are (1) to require an affected company to assume full responsibility for demonstrating compliance with applicable regulations; (2) to capture all of the regulatory information pertaining to an affected company in a single document; and (3) to make permits more consistent with each other.

A company is subject to the Title V program if it meets any of several criteria related to the nature or amount of its emissions. The Title V operating permit specifies what the affected company is, how it may operate, what its applicable regulations are, how it will demonstrate compliance, and what is required if compliance is not achieved. In Jefferson County, Kentucky, the Air Pollution Control District (APCDJC) is responsible for issuing Title V permits to affected companies and enforcing local regulations and delegated federal and state regulations. EPA may enforce federal regulations but not "District Only Enforceable Regulations".

Title V offers the public an opportunity to review and comment on a company's draft permit. It is intended to help the public understand the company's compliance responsibility under the Clean Air Act. Additionally, the Title V process provides a mechanism to incorporate new applicable requirements. Such requirements are available to the public for review and comment before they are adopted.

Title V Permit general conditions define requirements which are generally applicable to all Title V companies under the jurisdiction of APCDJC. This avoids repeating these requirements in every section of the company's Title V permit. Company-specific conditions augment the general conditions as necessary; these appear in the sections of the permit addressing individual emission units or emission points.

The general conditions include references to regulatory requirements that may not currently apply to the company, but which provide guidance for potential changes at the company or in the regulations during the life of the permit. Such requirements may become applicable if the company makes certain modifications or a new applicable requirement is adopted.

When the applicability of a section or subpart of a regulation is unclear, a clarifying citation will be made in the company's Title V permit at the emission unit/point level. Comments may also be added at the emission unit/point level to give further clarification or explanation.

The source's Title V permit may include a list of "insignificant activities," which are activities or processes falling into the general categories defined in Regulation 2.02, Section 2, and not associated with a specific operation or process for which there is a specific regulation. Activities so identified may be insignificant with regard to application disclosure requirements but may still have generally applicable requirements that continue to apply and must be included in the Title V operating permit. No periodic monitoring shall be required for facilities designated as insignificant activities.

### General Conditions

1. **Compliance** - The owner or operator shall comply with all applicable requirements and with all terms and conditions of this permit. Any noncompliance shall constitute a violation of the Act, State and District regulations and shall cause the source to be subject to enforcement actions including, but not limited to, the termination, revocation and reissuance, or revision of this permit, or denial of a permit application to renew this permit. Notwithstanding any other provision in the Jefferson County portion of the Kentucky SIP approved by EPA, any credible evidence may be used for the purpose of establishing whether the owner or operator is in compliance with, has violated, or is in violation of any such plan. (Regulation 2.16, sections 4.1.3, 4.1.13.1 and 4.1.13.7)
2. **Compliance Certification** - The owner or operator shall certify, annually or more frequently if required in applicable regulations, compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. This certification shall meet the requirements of Regulation 2.16, sections 3.5.11 and 4.3.5. The owner or operator shall submit the annual compliance certification directly to the following address as well as to the District, as set forth in Regulation 2.16, section 4.3.5.4:

***US EPA - Region IV  
Air Enforcement Branch  
Atlanta Federal Center  
61 Forsyth Street  
Atlanta, GA 30303-8960***

3. **Compliance Schedule** - A compliance schedule must meet the requirements of Regulation 2.16, section 3.5.9.5. The owner or operator shall submit a schedule of compliance for each emission unit that is not in compliance with all applicable requirements. A schedule of compliance shall be supplemental to, and shall not condone noncompliance with, the applicable requirements on which it is based. For each schedule of compliance, the owner or operator shall submit certified progress reports at least semi-annually, or at a more frequent period if specified in an applicable requirement or by the District in accordance with Regulation 2.16 section 4.3.4. The progress reports shall contain:
  - a. Dates for achieving the activities, milestones, or compliance required in the schedule of compliance, and dates when activities, milestones, or compliance were achieved.
  - b. An explanation of why dates in the schedule of compliance were not or will not be met, and preventive or corrective measures adopted.
4. **Duty to Supplement or Correct Application** - If the owner or operator fails to submit relevant facts or has submitted incorrect information in the permit application, it shall, upon discovery of the occurrence, promptly submit the supplementary facts or corrected information in accordance with Regulation 2.16, section 3.4.



5. **Emergency Provision**

- a. An emergency shall constitute an affirmative defense to an enforcement action brought for noncompliance with technology-based emission limitations. The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:
  - i. An emergency occurred and that the owner or operator can identify the cause of the emergency.
  - ii. The permitted facility was at the time being properly operated.
  - iii. During the period of the emergency the owner or operator expeditiously took all reasonable steps, consistent with safe operating practices, to minimize levels of emissions that exceeded the emission standards or other requirements in this permit.
  - iv. The owner or operator submitted notice meeting the requirements of Regulation 1.07 of the time when emissions limitations were exceeded because of the emergency. This notice must fulfill the requirement of this condition, and must contain a description of the emergency, any steps taken to mitigate emissions, and any corrective actions taken.
- b. In an enforcement proceeding, the owner or operator seeking to establish the occurrence of an emergency has the burden of proof.
- c. This condition is in addition to any emergency or upset provision contained in an applicable requirement.

(Regulation 2.16, sections 4.7.1 through 4.7.4)

- 6. **Emission Fees Payment Requirements** - The owner or operator shall pay annual emission fees in accordance with Regulation 2.08. Failure to pay the emissions fees when due shall constitute a violation of District Regulations. Such failure is subject to penalties and an increase in the fee of an additional 5% per month up to a maximum of 25% of the original amount due. In addition, failure to pay emissions fees within 60 days of the due date shall automatically suspend this permit to operate until the fee is paid or a schedule for payment acceptable to the District has been established. (Regulation 2.08, section 1.3)
- 7. **Emission Offset Requirements** - The owner or operator shall comply with the requirements of Regulation 2.04.
- 8. **Enforceability Requirements** - Except for the conditions that are specifically designated as "District Only Enforceable Conditions", all terms and conditions of this permit, including any provisions designed to limit a source's potential to emit, are enforceable by EPA and citizens as specified under the Act. (Regulation 2.16, sections 4.2.1 and 4.2.2)

9. **Enforcement Action Defense**

- a. It shall not be a defense for the owner or operator in an enforcement action that it would have been necessary for the owner or operator to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
- b. The owner or operator's failure to halt or reduce activity may be a mitigating factor in assessing penalties for noncompliance if the health, safety or environmental impacts of halting or reducing operations would be more serious than the impacts of continued operation.

(Regulation 2.16, sections 4.1.13.2 and 4.1.13.3)

10. **Hazardous Air Pollutants and Sources Categories** - The owner or operator shall comply with the applicable requirements of Regulations 5.02 and 5.14.

11. **Information Requests** - The owner or operator shall furnish to the District, within a reasonable time, information requested in writing by the District, to determine whether cause exists for revising, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The owner or operator shall also furnish, upon request, copies of records required to be kept by this permit. (Regulation 2.16, section 4.1.13.6) If information is submitted to the District under a claim of confidentiality, the source shall submit a copy of the confidential information directly to EPA. (Regulation 2.07, section 10.2)

12. **Insignificant Activities** - The owner or operator shall notify the District in a timely manner of any proposed change to an insignificant activity that would require a permit revision. (Regulation 2.16, section 5)

13. **Inspection and Entry** - Upon presentation of credentials and other documents as required by law, the owner or operator shall allow the District or an authorized representative to perform the following during reasonable hours:

- a. Enter the premises to inspect any emissions-related activity or records required in this permit.
- b. Have access to and copy records required by this permit.
- c. Inspect facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required by this permit.
- d. Sample or monitor substances or parameters to assure compliance with this permit or any applicable requirements.

(Regulation 2.16, section 4.3.2)

14. **Monitoring and Related Record keeping and Reporting Requirements** - The owner or operator shall comply with the requirements of Regulation 2.16, section 4.1.9. The owner

or operator shall submit all required monitoring reports at least once every six months, unless more frequent reporting is required by an applicable requirement. The reporting period shall be January 1st through June 30th and July 1st through December 31st of each calendar year. All reports shall be postmarked by the 60th day following the end of each reporting period. If surrogate operating parameters are monitored and recorded in lieu of emission monitoring, then an exceedance of multiple parameters may be deemed a single violation by the District for enforcement purposes.

15. **Off-permit Documents** - Any applicable requirements, including emission limitations, control technology requirements, or work practice standards, contained in an off-permit document cannot be changed without undergoing the permit revision procedures in Regulation 2.16, Section 5. (Regulation 2.16, section 4.1.5)
16. **Operational Flexibility** - The owner or operator may make changes without permit revision in accordance with Regulation 2.16, section 5.8.
17. **Permit Amendments (Administrative)** - This permit can be administratively amended by the District in accordance with Regulation 2.16, sections 2.3 and 5.4.
18. **Permit Application Submittal** - The owner or operator shall submit a timely and complete application for permit renewal or significant revision. If the owner or operator submits a timely and complete application then the owner or operator's failure to have a permit is not a violation until the District takes formal action on this permit application. This protection shall cease to apply if, subsequent to completeness determination, the owner or operator fails to submit, by the deadline specified in writing by the District, additional information required to process the application as required by Regulation 2.16, sections 3 and 5.2.
19. **Permit Duration** - This permit is issued for a fixed term of 5 years, in accordance with Regulation 2.16, section 4.1.8.3.
20. **Permit Renewal, Expiration and Application** - Permit renewal, expiration and application procedural requirements shall be in accordance with Regulation 2.16, sections 4.1.8.2 and 5.3. This permit may only be renewed in accordance with section 5.3.
21. **Permit Revisions** - No permit revision shall be required under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in the permit. (Regulation 2.16, section 4.1.16)
22. **Permit Revision Procedures (Minor)** - Except as provided in 40 CFR Part 72, the Acid Rain Program, this permit may be revised in accordance with Regulation 2.16, section 5.5.
23. **Permit Revision Procedures (Significant)** - A source seeking to make a significant permit revision shall meet all the Title V requirements for permit applications, issuance and renewal, in accordance with Regulation 2.16, section 5.7, and all other applicable District Regulations.

24. **Permit Revocation and Termination by the District** - The District may terminate this permit only upon written request of the owner or operator. The District may revoke a permit for cause, in accordance with Regulation 2.16, section 5.11.1.1 through 5.11.1.5. For purposes of Section 5, substantial or unresolved noncompliance includes, but is not limited to:
- a. Knowingly operating process or air pollution control equipment in a manner not allowed by an applicable requirement or that results in excess emissions of a regulated air pollutant that would endanger the public or the environment.
  - b. Failure or neglect to furnish information, analyses, plans, or specifications required by the District.
  - c. Knowingly making any false statement in any permit application.
  - d. Noncompliance with Regulation 1.07, section 4.2; or
  - e. Noncompliance with KRS Chapter 77.
25. **Permit Shield** - The permit shield shall apply in accordance with Regulation 2.16, section 4.6.1.
26. **Prevention of Significant Deterioration of Air Quality** - The owner or operator shall comply with the requirements of Regulation 2.05.
27. **Property Rights** - This permit shall not convey property rights of any sort or grant exclusive privileges in accordance with Regulation 2.16, section 4.1.13.5.
28. **Public Participation** - Except for modifications qualifying for administrative permit amendments or minor permit revision procedures, all permit proceedings shall meet the requirements of Regulations 2.07, Section 1; and 2.16, sections 5.1.1.2 and 5.5.4.
29. **Reopening For Cause** - This permit shall be reopened and revised by the District in accordance with Regulation 2.16 section 5.9.
30. **Reopening for Cause by EPA** - This permit may be revised, revoked and reissued or terminated for cause by EPA in accordance with Regulation 2.16 section 5.10.
31. **Risk Management Plan (112(r))** - For each process subject to Section 112(r) of the Act, the owner or operator shall comply with 40 CFR Part 68 and Regulation 5.15.
32. **Severability Clause** - The conditions of this permit are severable. Therefore, if any condition of this permit, or the application of any condition of this permit to any specific circumstance, is determined to be invalid, the application of the condition in question to other circumstances, as well as the remainder of this permit's conditions, shall not be affected. (Regulation 2.16, section 4.1.12)

33. **Stack Height Considerations** - The owner or operator shall comply with the requirements of Regulation 2.10.
34. **Startups, Shutdowns, and Malfunctions Requirements** - The owner or operator shall comply with the requirements of Regulation 1.07.
35. **Submittal of Reports, Data, Notifications, and Applications**
- a. Applications, reports, test data, monitoring data, compliance certifications, and any other document required by this permit as set forth in Regulation 2.16 sections 3.1, 3.4, 3.5, 4.1.13.6, 5.8.5 and 5.11.7 shall be submitted to:
- Air Pollution Control District of Jefferson County  
850 Barret Ave  
Louisville, KY 40204-1745***
- b. Documents which are specifically required to be submitted to EPA as set forth in Regulation 2.16 sections 3.3, and 5.8.5 shall be mailed to EPA at the following address:
- US EPA - Region IV  
APTMD - 12th floor  
Atlanta Federal Center  
61 Forsyth Street  
Atlanta, GA 30303-3104***
36. **Other Applicable Regulations** - The owner or operator shall comply with all applicable requirements of the following regulations:

<b>FEDERALLY ENFORCEABLE REGULATIONS</b>	
<b>Regulation</b>	<b>Title</b>
1.01	General Application of Regulations and Standards
1.02	Definitions
1.03	Abbreviations and Acronyms
1.04	Performance Tests
1.05	Compliance with Emission Standards and Maintenance Requirements
1.06	Source Self-Monitoring and Reporting
1.07	Emissions During Startups, Shutdowns, Malfunctions, and Emergencies
1.08	Administrative Procedures
1.09	Prohibition of Air Pollution
1.10	Circumvention
1.11	Control of Open Burning

<b>FEDERALLY ENFORCEABLE REGULATIONS</b>	
<b>Regulation</b>	<b>Title</b>
1.14	Control of Fugitive Particulate Emissions
2.01	General Application
2.02	Air Pollution Regulation Requirements and Exemptions
2.03	Permit Requirements - Non-Title V Construction and Operating Permits and Demolition/Renovation Permits
2.07	Public Notification for Title V, PSD, and Offset Permits; SIP Revisions; and Use of Emission Reduction Credits
2.09	Causes for Permit Suspension
2.10	Stack Height Considerations
2.11	Air Quality Model Usage
2.16	Title V Operating Permits
4.01	General Provisions for Emergency Episodes
4.02	Episode Criteria
4.03	General Abatement Requirements
4.07	Episode Reporting Requirements
5.01	General Provisions (for Hazardous Air Pollutants)
5.03	Potential Hazardous Emissions
6.01	General Provisions (for <i>Existing Affected Facilities</i> )
6.02	Emission Monitoring for Existing Sources
7.01	General Provisions (for <i>New Affected Facilities</i> )

<b>DISTRICT ONLY ENFORCEABLE REGULATIONS</b>	
<b>Regulation</b>	<b>Title</b>
1.12	Control of Nuisances
1.13	Control of Objectionable Odors in the Ambient Air
2.08	Emissions Fees, Permit Fees, Permit Renewal Procedures, and Additional Program Fees
8.03	Commuter Vehicle Testing Requirements

**Emission Unit U01: Powder Paint Bake Oven (AP1)****U01 Applicable Regulations**

<b>Federally Enforceable Regulations</b>		
<b>Regulation</b>	<b>Title</b>	<b>Applicable Sections</b>
1.05	Compliance with Emission Standards and Maintenance Requirements	1, 3, 4 and 5
7.25	Standard of Performance for New Sources Using Volatile Organic Compounds	1 through 5

<b>District Only Enforceable Regulations</b>		
<b>Regulation</b>	<b>Title</b>	<b>Applicable Sections</b>
5.12	Standards of Performance for New Sources Emitting Toxic Air Pollutants	1 through 5
5.14	Hazardous Air Pollutants and Source Categories	1 and 2

**U01 Allowable Emissions:**

<b>Pollutant</b>	<b>Limit/Standard</b>
TAPs	< ASL; Regulation 5.12, Section 5
VOC	See Additional Condition 1.b.

**U01 Components:**

Electrostatic application of powder paint

100 Electric Bake Oven

9-stage phosphator

Natural gas dryoff oven; 7 MM Btu/hr

**U01 Additional Conditions**

1. **Standards** (Regulation 2.16, section 4.1.1)
  - a. **TAPs**(Regulation 5.12, Sections 1 and 5): The owner or operator shall not allow Toxic Air Pollutants to exceed the calculated adjusted significance level.
  - b. **VOC**(Regulation 7.25, section 3.1): The owner or operator shall use powder coatings, which have been determined BACT for this process. See Comment.
2. **Monitoring** (Regulation 2.16, section 4.1.9.1.2)
  - a. **TAPs**: The owner or operator shall evaluate and document process changes to demonstrate that the emission levels established during compliance demonstration are not exceeded; and make these records available to the District upon request. If there is an increase in emission levels, the owner or operator shall demonstrate that emissions do not exceed the adjusted significant level (ASL), based on potential to emit (PTE).
  - b. **VOC**: See Additional Condition 3.b.
3. **Record Keeping** (Regulation 2.16, section 4.1.9.2)
  - a. **TAPs**: See Additional Condition 2.a.
  - b. **VOC**: The owner or operator shall:
    - i. Maintain current MSDSs for all powder coatings used.
    - ii. Demonstrate compliance by keeping records itemizing all VOC-containing materials and the quantity used or added to the process pursuant to GE's compliance plan under Regulation 1.05 and the September 1993 Board Order.
4. **Reporting** (Regulation 2.16, section. 4.1.9.3)
  - a. **TAPs**: There are no reporting requirements for this pollutant.
  - b. **VOC**: There are no reporting requirements for this pollutant.

**U01 Comment:**

Powder paints are exempt from 40 CFR Subpart SS. Additionally, this process is self-contained, and does not vent outdoors.



**Emission Unit U30:** Powder Paint Ovens (AP2)**U30 Applicable Regulations:**

<b>Federally Enforceable Regulations</b>		
<b>Regulation</b>	<b>Title</b>	<b>Applicable Sections</b>
1.05	Compliance with Emission Standards and Maintenance Requirements	1, 3, 4 and 5
7.25	Standard of Performance for New Sources Using Volatile Organic Compounds	1 through 5

<b>District Only Enforceable Regulations</b>		
<b>Regulation</b>	<b>Title</b>	<b>Applicable Sections</b>
5.12	Standards of Performance for New Sources Emitting Toxic Air Pollutants	1 through 5
5.14	Hazardous Air Pollutants and Source Categories	1 and 2

**U30 Allowable Emissions:**

<b>Pollutant</b>	<b>Limit/Standard</b>
TAPs	< ASL; Regulation 5.12, Section 5
VOC	See Additional Condition 1.b.

**U30 Components:**

Electrostatic Prime Dip Tank with post-rinse spray and dehydrator

Double tunnel phosphator

Electrostatic powder paint system

213 Paint Curing Oven #1 for Black, natural gas-fired

214 Paint Curing Oven #2 for Colors, natural gas-fired

**U30 Additional Conditions**

1. **Standards** (Regulation 2.16, section 4.1.1)
  - a. **TAPs**(Regulation 5.12, Sections 1 and 5): The owner or operator shall not allow Toxic Air Pollutants to exceed the calculated adjusted significance level.
  - b. **VOC**(Regulation 7.25, section 3.1): The owner or operator shall use powder coatings, which have been determined BACT for this process. See Comment.
2. **Monitoring** (Regulation 2.16, section 4.1.9.1.2)
  - a. **TAPs**: The owner or operator shall evaluate and document process changes to demonstrate that the emission levels established during compliance demonstration are not exceeded; and make these records available to the District upon request. If there is an increase in emission levels, the owner or operator shall demonstrate that emissions do not exceed the adjusted significant level (ASL), based on potential to emit (PTE).
  - d. **VOC**: See Additional Condition 3.b.
3. **Record Keeping** (Regulation 2.16, section 4.1.9.2)
  - a. **TAPs**: See Additional Condition 2.a.
  - d. **VOC**: The owner or operator shall:
    - i. Maintain current MSDSs for all powder coatings used.
    - ii. Demonstrate compliance by keeping records itemizing all VOC-containing materials and the quantity used or added to the process pursuant to GE's compliance plan under Regulation 1.05 and the September 1993 Board Order.
4. **Reporting** (Regulation 2.16, section. 4.1.9.3)
  - a. **TAPs**: There are no reporting requirements for this pollutant.
  - b. **VOC**: There are no reporting requirements for this pollutant.

**U30 Comment:**

Powder paints are exempt from 40 CFR Subpart SS. Additionally, this process is self-contained, and does not vent outdoors.

**Emission Unit U40:** Rack Prime Dip (AP3)**U40 Applicable Regulations:**

<b>Federally Enforceable Regulations</b>		
<b>Regulation</b>	<b>Title</b>	<b>Applicable Sections</b>
1.05	Compliance with Emission Standards and Maintenance Requirements	1, 3, 4 and 5
6.16	Standards of Performance for Existing Large Appliance Surface coating Operations	1 through 6

<b>District Only Enforceable Regulations</b>		
<b>Regulation</b>	<b>Title</b>	<b>Applicable Sections</b>
5.11	Standards of Performance for Existing Sources Emitting Toxic Air Pollutants	1 through 6
5.14	Hazardous Air Pollutants and Source Categories	1 and 2

**U40 Allowable Emissions:**

<b>Pollutant</b>	<b>Limit/Standard</b>
TAPs	< ASL; Regulation 5.11, Sections 1 and 6
VOC	2.8 lbs/gallon; Regulation 6.16, section 5.1.

**U40 Components:**

304 Wire Rack Prime Dip Tank

306 Wire Rack Prime Drip Chamber

305 Fluid Bed Prime Preheat Oven; natural gas-fired

**U40 Additional Conditions**

- Standards** (Regulation 2.16, section 4.1.1)

- a. **TAPs**(Regulation 5.11, Sections 1 and 6): The owner or operator shall not allow Toxic Air Pollutants to exceed the calculated adjusted significance level.
  - b. **VOC**
    - i. No person shall cause, allow or permit an affected facility to discharge into the atmosphere more than 15% by weight of the VOCs input into the affected facility unless said person has qualified for an exemption pursuant to Section 5. (Regulation 6.16, Section 3)
    - ii. Any affected facility shall be exempt from the provisions of Section 3 if the VOC content of the coatings is less than 0.34 kilograms/liter of coating (2.8 lbs/gallon), excluding water and exempt solvents, delivered to the applicators associated with the prime, single or topcoat coating line. (Regulation 6.16, section 5.1)
2. **Monitoring** (Regulation 2.16, section 4.1.9.1.2)
- a. **TAPs**: The owner or operator shall evaluate and document process changes to demonstrate that the emission levels established during compliance demonstration are not exceeded; and make these records available to the District upon request. If there is an increase in emission levels, the owner or operator shall demonstrate that emissions do not exceed the adjusted significant level (ASL), based on potential to emit (PTE).
  - b. **VOC**: See Additional Condition 3.b.
3. **Record Keeping** (Regulation 2.16, section 4.1.9.2)
- a. **TAPs**: See Additional Condition 2.a.
  - b. **VOC**: The owner or operator shall:
    - i. Demonstrate compliance by keeping records itemizing all VOC-containing materials and the quantity used or added to the process pursuant to the source's compliance plan under Regulation 1.05 and the September 1993 Board Order.
    - ii. Pursuant to Regulation 6.16, section 6.1, the owner or operator shall maintain the following records:
      - 1) The rule number applicable to the operation for which the records are being maintained;
      - 2) The application method and substrate type (metal, plastic, paper, etc.);
      - 3) The amount and type of adhesive, coatings (including catalyst and reducer for multi-component coatings), solvent, and/or graphic arts material used at each point of application, including exempt compounds;

- 4) The VOC content as applied in each adhesive, coating, solvent, and/or graphic arts material;
  - 5) The date for each application of adhesive, coating, solvent, and/or graphic arts material;
  - 6) The amount of surface preparation, clean-up, wash-up, of solvent (including exempt compounds) used and the VOC content of each; and
  - 7) The oven temperature when an oven is part of the coating line.
- iii. VOC content shall be calculated using a percent solids basis (less water and exempt solvents) for adhesives, coating, and inks; using EPA Method 24.
4. **Reporting** (Regulation 2.16, section. 4.1.9.3)
- a. **TAPs:** There are no reporting requirements for this pollutant.
  - b. **VOC:** The owner or operator shall include, at a minimum, the following information in the semi-annual compliance monitoring reports for VOC:
    - i. Emission Unit/Point ID Number;
    - ii. The beginning and ending date of the reporting period;
    - iii. Identification of all periods of exceedances of the VOC limit including the quantity of excess emissions;
    - iv. Reason for excess emissions; and
    - v. Description of corrective action taken to prevent future exceedance.

**Emission Unit U42:** Fluid Bed Rack Coater (AP3)**U42 Applicable Regulations:**

<b>Federally Enforceable Regulations</b>		
<b>Regulation</b>	<b>Title</b>	<b>Applicable Sections</b>
1.05	Compliance with Emission Standards and Maintenance Requirements	1, 3, 4 and 5
6.09	Standards of Performance for New Process Operations	1 through 3
6.16	Standards of Performance for Existing Large Appliance Surface coating Operations	1 through 6

<b>District Only Enforceable Regulations</b>		
<b>Regulation</b>	<b>Title</b>	<b>Applicable Sections</b>
5.11	Standards of Performance for Existing Sources Emitting Toxic Air Pollutants	1 through 6
5.14	Hazardous Air Pollutants and Source Categories	1 and 2

**U42 Allowable Emissions:**

<b>Pollutant</b>	<b>Limit/Standard</b>
Opacity	Less than 20%; Regulation 6.09, section 3.1
PM	2.58 lbs/hour; Regulation 6.09, section 3.2
TAPs	< ASL; Regulation 5.11, Sections 1 and 6
VOC	2.8 lbs/gallon; Regulation 6.16, section 5.1

**U42 Components:**

309 Fluid Bed PVC Rack Coater

310 Fluid Bed PVC Rack Coater Post Heat Oven; natural gas-fired

**Control Devices:**

<b>ID</b>	<b>Description</b>	<b>Performance Indicator</b>	<b>Range</b>	<b>Monitoring and Frequency</b>
C30 and C31	Two Rotoclones	Blower motor current	20 - 70 amps (each)	See AC 2.b.
C33	One venturi scrubber	Blower run light and water pressure light/preventive maintenance program	Each light "on"	See AC 2.b.

**U42 Additional Conditions****1. Standards** (Regulation 2.16, section 4.1.1)

- a. **Opacity**(Regulation 6.09, section 3.1): The owner or operator shall not allow or cause the opacity from the control devices and associated components to equal or exceed 20%
- b. **PM**(Regulation 6.09, section 3.2): The owner or operator shall not allow the emission of PM to exceed 2.58 lbs/hr.
- c. **TAPs**(Regulation 5.11, Sections 1 and 6): The owner or operator shall not allow Toxic Air Pollutants to exceed the calculated adjusted significance level.
- d. **VOC**:
  - i. No person shall cause, allow or permit an affected facility to discharge into the atmosphere more than 15% by weight of the VOCs input into the affected facility unless said person has qualified for an exemption pursuant to Section 5. (Regulation 6.16, Section 3)
  - ii. Any affected facility shall be exempt from the provisions of Section 3 if the VOC content of the coatings is less than 0.34 kilograms/liter of coating (2.8 lbs/gallon), excluding water and exempt solvents, delivered to the applicators associated with the prime, single or topcoat coating line. (Regulation 6.16, section 5.1)

**2. Monitoring** (Regulation 2.16, section 4.1.9.1.2)**a. Opacity**

- i. To demonstrate compliance with the opacity standard, the owner or operator shall conduct a weekly one-minute visible emissions survey, during normal operation and daylight hours, of the PM Emission Points (stacks). No more than four Emission Points shall be observed simultaneously.
  - ii. For Emission Points without observed visible emissions during twelve consecutive operating weeks, the owner or operator may elect to conduct a monthly one-minute visible emission survey, during normal operation and daylight hours. No more than four Emission Points shall be observed simultaneously.
  - iii. At Emission Points where visible emissions are observed, the owner or operator shall initiate corrective action within eight hours of the initial observation. If the visible emissions persist, the owner or operator shall perform or cause to be performed a Method 9 for stack emissions or Method 22 for fugitive emissions within 24 hours of the initial observation. If the opacity standard is exceeded, the owner or operator shall report the exceedance to the District, pursuant to Regulation 1.07, and take all practicable steps to eliminate the exceedance. Subsequent visible emission surveys shall be conducted as indicated in 2.a.i.
- b. PM**
- i. The owner or operator shall, at least once per day, monitor proper operation of the control devices during normal operation as follows:
    - 1) For the rotoclone system, blower current readings for each rotoclone shall be checked to determine if values are between the range specified above.
    - 2) For the venturi scrubber, the water pressure ON light and blower RUN light shall be confirmed energized.
  - ii. If any single reading is observed outside of the established indicator monitoring range or the appropriate "ON" or "RUN" light is not energized, the owner or operator shall investigate and act as follows:
    - 1) If initial investigation of the process and its control devices show no apparent malfunction and appear to be operating normally, repair of the indicator light or amp meter shall be made.
    - 2) If an emission control system component has shutdown, interlocks shall shut down the rack vinyl coating process. Upon restart of the process, the owner or operator shall ensure that the emission control device indicators are in normal operating range as specified.
  - iii. Preventive maintenance shall be performed at least quarterly to confirm overall proper operation of each control device.



- c. **TAPs:** The owner or operator shall evaluate and document process changes to demonstrate that the emission levels established during compliance demonstration are not exceeded; and make these records available to the District upon request. If there is an increase in emission levels, the owner or operator shall demonstrate that emissions do not exceed the adjusted significant level (ASL), based on potential to emit (PTE).
  - d. **VOC:** See Additional Condition 3.d.
3. **Record Keeping** (Regulation 2.16, section 4.1.9.2)
- a. **Opacity:** Records of the results of all visible emission surveys and tests performed shall be maintained and shall include the date and time of the survey; the name of the person conducting the survey; and whether visible emissions were observed. If an Emission Point is not being operated during a given week (or month, as appropriate), then no visible emission survey needs to be performed and a negative declaration may be entered in the record.
  - b. **PM:** The owner or operator shall maintain records of daily production rates and daily hours of operation, parametric monitoring, and preventive maintenance inspections of control devices to demonstrate compliance with PM emission limit.
  - c. **TAPs:** See Additional Condition 1.c.
  - d. **VOC:** The owner or operator shall:
    - i. Demonstrate compliance by keeping records itemizing all VOC-containing materials and the quantity used or added to the process pursuant to GE's compliance plan under Regulation 1.05 and the September 1993 Board Order.
    - ii. Pursuant to Regulation 6.16, section 6.1, the owner or operator shall maintain the following records:
      - 1) The rule number applicable to the operation for which the records are being maintained;
      - 2) The application method and substrate type (metal, plastic, paper, etc.);
      - 3) The amount and type of adhesive, coatings (including catalyst and reducer for multi-component coatings), solvent, and/or graphic arts material used at each point of application, including exempt compounds;
      - 4) The VOC content as applied in each adhesive, coating, solvent, and/or graphic arts material;
      - 5) The date for each application of adhesive, coating, solvent, and/or graphic arts material;

- 6) The amount of surface preparation, clean-up, wash-up, of solvent (including exempt compounds) used and the VOC content of each; and
  - 7) The oven temperature when an oven is part of the coating line.
  - iii. VOC content shall be calculated using a percent solids basis (less water and exempt solvents) for adhesives, coating, and inks; using EPA Method 24.
4. **Reporting** (Regulation 2.16, section. 4.1.9.3)
- a. **Opacity:** The owner or operator shall include, at a minimum, the following information in the semi-annual compliance monitoring reports for opacity:
    - i. Emission Unit ID number and Stack ID Number;
    - ii. The beginning and ending date of the reporting period;
    - iii. The date, time, and result of each Method 9 or Method 22 conducted (or a negative declaration if none)
    - iv. Description of any corrective action taken pursuant to Additional Condition 2.a.iii.
  - b. **PM:** The owner or operator shall include, at a minimum, the following information in the semi-annual compliance monitoring reports for PM:
    - i. Emission Unit/Point ID Number;
    - ii. The beginning and ending date of the reporting period;
    - iii. Identification of all periods of exceedances of the PM emission limit including the quantity of excess emissions;
    - iv. Reason for excess emissions; and
    - v. Description of corrective action taken to prevent future exceedance.
  - c. **TAPs:** There are no reporting requirements for this pollutant.
  - d. **VOC:** The owner or operator shall include, at a minimum, the following information in the semi-annual compliance monitoring reports for VOC:
    - i. Emission Unit/Point ID Number;
    - ii. The beginning and ending date of the reporting period;

- iii. Identification of all periods of exceedances of the VOC limit including the quantity of excess emissions;
- iv. Reason for excess emissions; and
- v. Description of corrective action taken to prevent future exceedance.

**Emission Unit U55:** Condenser Paint System (AP4)**U55 Applicable Regulations:**

<b>Federally Enforceable Regulations</b>		
<b>Regulation</b>	<b>Title</b>	<b>Applicable Sections</b>
1.05	Compliance with Emission Standards and Maintenance Requirements	1, 3, 4 and 5
6.16	Standards of Performance for Existing Large Appliance Surface coating Operations	1 through 6

<b>District Only Enforceable Regulations</b>		
<b>Regulation</b>	<b>Title</b>	<b>Applicable Sections</b>
5.11	Standards of Performance for Existing Sources Emitting Toxic Air Pollutants	1 through 6
5.14	Hazardous Air Pollutants and Source Categories	1 and 2

**U55 Allowable Emissions:**

<b>Pollutant</b>	<b>Limit/Standard</b>
TAPs	< ASL; Regulation 5.11, Sections 1 and 6
VOC	2.8 lbs/gallon; Regulation 6.16, section 5.1

**U55 Components:**

406 Dip Tank

407 Drip Tunnel

408 IR Cure Ovens

**U55 Additional Conditions****1. Standards** (Regulation 2.16, section 4.1.1)

- a. **TAPs**(Regulation 5.11, Sections 1 and 6): The owner or operator shall not allow Toxic Air Pollutants to exceed the calculated adjusted significance level.
- b. **VOC**
  - i. No person shall cause, allow or permit an affected facility to discharge into the atmosphere more than 15% by weight of the VOCs input into the affected facility unless said person has qualified for an exemption pursuant to Section 5. (Regulation 6.16, Section 3)
  - ii. Any affected facility shall be exempt from the provisions of Section 3 if the VOC content of the coatings is less than 0.34 kilograms/liter of coating (2.8 lbs/gallon), excluding water and exempt solvents, delivered to the applicators associated with the prime, single or topcoat coating line. (Regulation 6.16, section 5.1)

**2. Monitoring** (Regulation 2.16, section 4.1.9.1.2)

- a. **TAPs:** The owner or operator shall evaluate and document process changes to demonstrate that the emission levels established during compliance demonstration are not exceeded; and make these records available to the District upon request. If there is an increase in emission levels, the owner or operator shall demonstrate that emissions do not exceed the adjusted significant level (ASL), based on potential to emit (PTE).
- b. **VOC:** See Additional Condition 3.b.

**3. Record Keeping** (Regulation 2.16, section 4.1.9.2)

- a. **TAPs:** See Additional Condition 1.a.
- b. **VOC:** The owner or operator shall:
  - i. Demonstrate compliance by keeping records itemizing all VOC-containing materials and the quantity used or added to the process pursuant to GE's compliance plan under Regulation 1.05 and the September 1993 Board Order.
  - ii. Pursuant to Regulation 6.16, section 6.1, the owner or operator shall maintain the following records:
    - 1) The rule number applicable to the operation for which the records are being maintained;
    - 2) The application method and substrate type (metal, plastic, paper, etc.);

- 3) The amount and type of adhesive, coatings (including catalyst and reducer for multi-component coatings), solvent, and/or graphic arts material used at each point of application, including exempt compounds;
  - 4) The VOC content as applied in each adhesive, coating, solvent, and/or graphic arts material;
  - 5) The date for each application of adhesive, coating, solvent, and/or graphic arts material;
  - 6) The amount of surface preparation, clean-up, wash-up, of solvent (including exempt compounds) used and the VOC content of each; and
  - 7) The oven temperature when an oven is part of the coating line.
- iii. VOC content shall be calculated using a percent solids basis (less water and exempt solvents) for adhesives, coating, and inks; using EPA Method 24.
4. **Reporting** (Regulation 2.16, section. 4.1.9.3)
- a. **TAPs:** There are no reporting requirements for this pollutant.
  - b. **VOC:** The owner or operator shall include, at a minimum, the following information in the semi-annual compliance monitoring reports for VOC:
    - i. Emission Unit/Point ID Number;
    - ii. The beginning and ending date of the reporting period;
    - iii. Identification of all periods of exceedances of the VOC limit including the quantity of excess emissions;
    - iv. Reason for excess emissions; and
    - v. Description of corrective action taken to prevent future exceedance.

**Emission Unit U65:** Powder Paint Bake Oven (AP5)**U65 Applicable Regulations:**

<b>Federally Enforceable Regulations</b>		
<b>Regulation</b>	<b>Title</b>	<b>Applicable Sections</b>
1.05	Compliance with Emission Standards and Maintenance Requirements	1, 3, 4 and 5
7.25	Standard of Performance for New Sources Using Volatile Organic Compounds	1 through 5

<b>District Only Enforceable Regulations</b>		
<b>Regulation</b>	<b>Title</b>	<b>Applicable Sections</b>
5.12	Standards of Performance for New Sources Emitting Toxic Air Pollutants	1 through 5
5.14	Hazardous Air Pollutants and Source Categories	1 and 2

**U65 Allowable Emissions:**

<b>Pollutant</b>	<b>Limit/Standard</b>
TAPs	< ASL; Regulation 5.12, Section 5
VOC	See Additional Condition 1.d.

**U65 Components:**

532 Curing Oven; natural gas-fired

Phosphate tunnel

Dry off oven; 6.6 MM Btu/hr

Powder paint applicators

**U65 Additional Conditions**

1. **Standards** (Regulation 2.16, section 4.1.1)
  - a. **TAPs**(Regulation 5.12, Sections 1 and 5): The owner or operator shall not allow Toxic Air Pollutants to exceed the calculated adjusted significance level.
  - b. **VOC**(Regulation 7.25, section 3.1): The owner or operator shall use powder coatings, which have been determined BACT for this process. See Comment.
2. **Monitoring** (Regulation 2.16, section 4.1.9.1.2)
  - a. **TAPs**: The owner or operator shall evaluate and document process changes to demonstrate that the emission levels established during compliance demonstration are not exceeded; and make these records available to the District upon request. If there is an increase in emission levels, the owner or operator shall demonstrate that emissions do not exceed the adjusted significant level (ASL), based on potential to emit (PTE).
  - b. **VOC**: See Additional Condition 3.b.
3. **Record Keeping** (Regulation 2.16, section 4.1.9.2)
  - a. **TAPs**: See Additional Condition 2.a.
  - b. **VOC**: The owner or operator shall:
    - i. Maintain current MSDSs for all powder coatings used.
    - ii. Demonstrate compliance by keeping records itemizing all VOC-containing materials and the quantity used or added to the process pursuant to GE's compliance plan under Regulation 1.05 and the September 1993 Board Order.
4. **Reporting** (Regulation 2.16, section. 4.1.9.3)
  - a. **TAPs**: There are no reporting requirements for this pollutant.
  - b. **VOC**: There are no reporting requirements for this pollutant.

**U65 Comment:**

Powder paints are exempt from 40 CFR Subpart SS. Additionally, this process is self-contained, and does not vent outdoors.



**Emission Units U74 - U76; U78, and U80:** Coal-fired Boilers 1 - 5 (AP20)**U74 - U76; and U80 Applicable Regulations:**

<b>Federally Enforceable Regulations</b>		
<b>Regulation</b>	<b>Title</b>	<b>Applicable Sections</b>
6.07	Standards of Performance for Existing Indirect Heat Exchangers	1 through 4
6.42	Reasonably Available Control Technology Requirements for Major Volatile Organic Compound and Nitrogen Oxides Emitting Facilities	1 through 5

**U74 - U76; and U80 Allowable Emissions:**

<b>Pollutant</b>	<b>Limit/Standard</b>
Opacity	See AC 1.a
PM	0.18 lb/MM Btu <i>for each boiler</i> ; Regulation 6.07, section 3.1
SO <sub>2</sub>	1.2 lbs/MM Btu <i>for each boiler</i> ; Regulation 6.07, section 4.1
NO <sub>x</sub>	See NO <sub>x</sub> RACT Plan.

**U74 - U76; and U80 Components:**

U74: 901 Boiler # 3 (180 MM Btu; coal-fired)

U75: 902 Boiler # 1 (180 MM Btu; coal-fired)

U76: 903 Boiler # 2 (180 MM Btu; coal-fired)

U78: 905 Boiler # 5 (180 MM Btu; coal-fired)

U80: 907 Boiler # 4 (180 MM Btu; coal-fired)

**Control Devices:**

Boiler No.	ID	Description	Performance Indicator	Range	Monitoring	
1	C82	Multiclones	See Comment 1.	N/A	N/A	
2	C85					
3	C81					
4	C92					
5	C87					
1	C84	ESPs	Secondary voltage	30 - 40 kV (each)	See AC 2.b.ii.	
2	C83		Secondary current	140 - 150 mA (each)		
3	C80		Spark rate, except for C80. For C80, a 60-second count of primary (or secondary) current meter needle deflections is required. See Comment 2.	1 - 10 sparks/minute, except for C80. For C80, 1 - 10 primary (or secondary) current meter needle deflec-tions/minute.		
4	C91					
5	C86					

**U74 - U76; and U80 Additional Conditions****1. Standards** (Regulation 2.16, section 4.1.1)

- a. **Opacity** (Regulation 6.07, section 3.3): The owner or operator shall not cause the emission into the open air of particulate matter from any indirect heat exchanger which is greater than 20% opacity, except for:
  - i. Emissions into the open air of particulate matter from any indirect heat exchanger during building a new fire, cleaning the fire box, or blowing soot for a period or periods aggregating not more than ten minutes in any 60 minutes which are less than 40% opacity.
  - ii. Emissions from waterwall spreader-stoker indirect heat exchangers during startup operations if the emissions do not exceed the following:
    - 1) First 30 minutes - 80% opacity;
    - 2) Next hour - 60% opacity; and
    - 3) Next 2 ½ hours - 40% opacity.

- b. **PM**(Regulation 6.07, section 3.1): The owner or operator shall not allow the emission of PM to exceed 0.18 lb/MM Btu.
- c. **SO<sub>2</sub>**(Regulation 6.07, section 4.3): The owner or operator shall not allow the emission of SO<sub>2</sub> to exceed 1.2 lbs/MM Btu.
- d. **NO<sub>x</sub>** (Regulation 6.42, Section 4): The owner or operator shall comply with the NO<sub>x</sub> RACT Plan attached to this permit.

**2. Monitoring** (Regulation 2.16, section 4.1.9.1.2)

a. **Opacity:**

- i. To demonstrate compliance with the opacity standard, the owner or operator shall conduct a daily one-minute visible emissions survey, during normal operation and daylight hours, of the PM Emission Points (stacks). No more than four Emission Points shall be observed simultaneously.
- ii. For Emission Points without observed visible emissions during twelve consecutive operating weeks, the owner or operator may elect to conduct a weekly one-minute visible emission survey, during normal operation and daylight hours. No more than four Emission Points shall be observed simultaneously.
- iii. At Emission Points where visible emissions are observed, the owner or operator shall initiate corrective action within eight hours of the initial observation. If the visible emissions persist, the owner or operator shall perform or cause to be performed a Method 9 for stack emissions or Method 22 for fugitive emissions within 24 hours of the initial observation. If the opacity standard is exceeded, the owner or operator shall report the exceedance to the District, pursuant to Regulation 1.07, and take all practicable steps to eliminate the exceedance. Subsequent visible emission surveys shall be conducted as indicated in 2.a.i.

b. **PM:**

- i. The owner or operator shall, at least once per shift, monitor and record ESP secondary element voltage and current, and spark rate (or current meter needle deflections for C80, as indicated above) for each boiler during normal operation to confirm values within the ranges specified above.
- ii. If any single ESP secondary voltage or current, or spark rate (or current meter needle deflections for C80, as indicated above) reading is observed to be outside of the established indicator monitoring ranges specified above, the owner or operator shall investigate and act as follows:
  - 1) If initial investigation of the boiler and its control devices show no apparent, continuing malfunction, no further action is required at this time.

## 2) If an ESP controller has faulted:

- A) Attempt to reset the ESP controller and observe that current, voltage, and spark rate readings (or primary (or secondary) current meter needle deflections for C80, as indicated above) return to their normal ranges, as specified above.
  - B) If the ESP controller cannot be immediately reset, the owner or operator shall effect repairs
- c. **SO<sub>2</sub>**: The owner or operator shall review vendor supplied purchase records showing the heating value, ash and sulfur content of the coal, and calculate SO<sub>2</sub> emissions to monitor compliance with Additional Condition 1.c.
  - d. **NO<sub>x</sub>**: The owner or operator shall comply with the NO<sub>x</sub> RACT Plan attached to this permit.

3. **Record Keeping** (Regulation 2.16, section 4.1.9.2)

- a. **Opacity**: The owner or operator shall maintain records of the results of all visible emissions surveys and tests. Records of the results of any visible emissions survey shall include the date and time of the survey, the name of the person conducting the survey, and whether or not visible emissions were observed. If an emission unit is not operated during that day then no visible emissions survey or test needs to be performed.
- b. **PM**: The owner or operator shall maintain the vendor supplied coal sample analysis data; maintain records of daily coal consumption; and record daily the secondary voltage and current, and spark rate of the ESP.
- c. **SO<sub>2</sub>**: The owner or operator shall maintain the vendor supplied coal sample analysis data and calculations, to demonstrate compliance with the emission standard of 1.2 lbs/MM Btu.
- d. **NO<sub>x</sub>**: The owner or operator shall comply with the NO<sub>x</sub> RACT Plan attached to this permit.

4. **Reporting** (Regulation 2.16, section 4.1.9.3)

- a. **Opacity**: The owner or operator shall include, at a minimum, the following information in the semi-annual compliance monitoring reports for opacity:
  - i. Emission Unit ID number and Stack ID Number;
  - ii. The beginning and ending date of the reporting period;

- iii. The date, time, and result of each Method 9 or Method 22 conducted (or a negative declaration if none)
- iv. Description of any corrective action taken pursuant to Additional Condition 2.a.iii.
- b. **PM:** The owner or operator shall include, at a minimum, the following information in the semi-annual compliance monitoring reports for PM:
  - i. Emission Unit/Point ID Number;
  - ii. The beginning and ending date of the reporting period;
  - iii. Identification of all periods of exceedances of the PM emission limit including the quantity of excess emissions;
  - iv. Reason for excess emissions; and
  - v. Description of corrective action taken to prevent future exceedance.
- c. **SO<sub>2</sub>:** The owner or operator shall include, at a minimum, the following information in the semi-annual compliance monitoring reports for SO<sub>2</sub>:
  - i. Emission Unit/Point ID Number;
  - ii. The beginning and ending date of the reporting period;
  - iii. Identification of all periods of exceedances of the hourly SO<sub>2</sub> limit including the quantity of excess emissions;
  - iv. Reason for excess emissions; and
  - v. Description of corrective action taken to prevent future exceedance.
- d. **NO<sub>x</sub>:** The owner or operator shall comply with the NO<sub>x</sub> RACT Plan attached to this permit.

#### **U74 - U76; and U80 Comments**

1. The multiclones serve only as “pre-filters”, to avoid overloading the ESPs; therefore no additional monitoring is required for these devices.
2. ESP number C80 is not equipped with a spark rate counter; therefore, needle deflection counts are required.

**Emission Unit U79:** Ash Handling/Conveying/Storage (AP20)**U79 Applicable Regulations:**

<b>Federally Enforceable Regulations</b>		
<b>Regulation</b>	<b>Title</b>	<b>Applicable Sections</b>
6.09	Standards of Performance for Existing Process Operations	1 through 3

**U79 Allowable Emissions:**

<b>Pollutant</b>	<b>Limit/Standard</b>
Opacity	Less than 20%; Regulation 6.09, section 3.1
PM	5.38 lbs/hour; Regulation 6.09, Standards of Performance for Existing Process Operations, section 3.2

**U79 Components:**

909 Ash handling, conveying, and storage

**Control Devices:**

<b>ID</b>	<b>Description</b>	<b>Performance Indicator</b>	<b>Range</b>	<b>Monitoring</b>
C88	Water Spray Washer	See AC 3.b.	N/A	See AC 3.b.

**U79 Additional Conditions**

1. **Standards** (Regulation 2.16, section 4.1.1)
  - a. **Opacity**(Regulation 6.09, section 3.1): The owner or operator shall not allow or cause the opacity from this system and associated components to equal or exceed 20%.
  - b. **PM**(Regulation 6.09, section 3.2): The owner or operator shall not allow the emission of PM to exceed 5.38 lbs/hr.

2. **Monitoring** (Regulation 2.16, section 4.1.9.1.2)

a. **Opacity**

- i. To demonstrate compliance with the opacity standard, the owner or operator shall conduct a weekly one-minute visible emissions survey, during normal operation and daylight hours, of the PM Emission Points (stacks). No more than four Emission Points shall be observed simultaneously.
- ii. For Emission Points without observed visible emissions during twelve consecutive operating weeks, the owner or operator may elect to conduct a monthly one-minute visible emission survey, during normal operation and daylight hours. No more than four Emission Points shall be observed simultaneously.
- iii. At Emission Points where visible emissions are observed, the owner or operator shall initiate corrective action within eight hours of the initial observation. If the visible emissions persist, the owner or operator shall perform or cause to be performed a Method 9 for stack emissions or Method 22 for fugitive emissions within 24 hours of the initial observation. If the opacity standard is exceeded, the owner or operator shall report the exceedance to the District, pursuant to Regulation 1.07, and take all practicable steps to eliminate the exceedance. Subsequent visible emission surveys shall be conducted as indicated in 2.a.i.

b. **PM:** See Additional Condition 3.b.

3. **Record Keeping** (Regulation 2.16, section 4.1.9.2)

- a. **Opacity:** Records of the results of all visible emission surveys and tests performed shall be maintained and shall include the date and time of the survey; the name of the person conducting the survey; and whether visible emissions were observed. If an Emission Point is not being operated during a given week (or month, as appropriate), then no visible emission survey needs to be performed and a negative declaration may be entered in the record.
- b. **PM:** The owner or operator shall maintain records of the time and duration of ash pulls and truck loading to demonstrate compliance with PM emission limit.

4. **Reporting** (Regulation 2.16, section. 4.1.9.3)

- a. **Opacity:** The owner or operator shall include, at a minimum, the following information in the semi-annual compliance monitoring reports for opacity:
  - i. Emission Unit ID number and Stack ID Number;
  - ii. The beginning and ending date of the reporting period;

- iii. The date, time, and result of each Method 9 or Method 22 conducted (or a negative declaration if none); and
  - iv. Description of any corrective action taken pursuant to Additional Condition 2.a.iii.
- b. **PM:** The owner or operator shall include, at a minimum, the following information in the semi-annual compliance monitoring reports for PM:
- i. Emission Unit/Point ID Number;
  - ii. The beginning and ending date of the reporting period;
  - iii. Identification of all periods of exceedances of the PM emission limit including the quantity of excess emissions;
  - iv. Reason for excess emissions; and
  - v. Description of corrective action taken to prevent future exceedance.



**Emission Units U81 and U82:** Gas-fired Boiler 6 - 7 (AP20)**U81 and U82 Applicable Regulations:**

<b>Federally Enforceable Regulations</b>		
<b>Regulation</b>	<b>Title</b>	<b>Applicable Sections</b>
6.07	Standards of Performance for Existing Indirect Heat Exchangers	1,2,3.1,3.2,3.3 and 4.1
6.42	Reasonably Available Control Technology Requirements for Major Volatile Organic Compound and Nitrogen Oxides Emitting Facilities	1, 2, 3, 4.3, 5

**U81 and U82 Allowable Emissions:**

<b>Pollutant</b>	<b>Limit/Standard</b>
Opacity	See AC 1.a
PM	0.18 lb/MM Btu <i>for each boiler</i> ; Regulation 6.07, section 3.1
NO <sub>x</sub>	See NO <sub>x</sub> RACT Plan.
SO <sub>2</sub>	0.8 lb/MM Btu <i>for boiler #7</i> ; Regulation 6.07, section 4.1

**U81 and U82 Components:**

908 Boiler # 6 (180 MM Btu; landfill gas-fired); equipped with low NO<sub>x</sub> burners.

909 Boiler # 7 (189 MM Btu; natural gas-fired, with No. 2 fuel oil as backup.)

**U81 and U82 Additional Conditions**

1. **Standards** (Regulation 2.16, section 4.1.1)
  - a. **Opacity**(Regulation 6.07, sections 3.2 and 3.3): The owner or operator shall not cause the emission into the open air of particulate matter from any indirect heat exchanger which is greater than 20% opacity, except for:

- i. Emissions into the open air of particulate matter from any indirect heat exchanger during building a new fire, cleaning the fire box, or blowing soot for a period or periods aggregating not more than ten minutes in any 60 minutes which are less than 40% opacity.
- ii. Emissions up to 40% opacity from all other waterwall indirect heat exchangers for any 30-minute period during startup operations.
- b. **PM**(Regulation 6.07, section 3.1): The owner or operator shall not allow the emission of PM to exceed 0.18 lb/MM Btu.
- c. **NO<sub>x</sub>** (Regulation 6.42, Section 4): The owner or operator shall comply with the NO<sub>x</sub> RACT Plan attached to this permit.
- d. **SO<sub>2</sub>**(Regulation 6.07, section 4.1): The owner or operator shall not allow the emission of SO<sub>2</sub> to exceed 0.8 lb/MM Btu.

**2. Monitoring** (Regulation 2.16, section 4.1.9.1.2)

**a. Opacity**

- i. While combusting gaseous fuels only, to demonstrate compliance with the opacity standard, the owner or operator shall conduct a weekly one-minute visible emissions survey, during normal operation and daylight hours, of the PM Emission Points (stacks). No more than four Emission Points shall be observed simultaneously.
- ii. For Emission Points without observed visible emissions during twelve consecutive operating weeks, the owner or operator may elect to conduct a monthly one-minute visible emission survey, during normal operation and daylight hours. No more than four Emission Points shall be observed simultaneously.
- iii. At Emission Points where visible emissions are observed, the owner or operator shall initiate corrective action within eight hours of the initial observation. If the visible emissions persist, the owner or operator shall perform or cause to be performed a Method 9 for stack emissions or Method 22 for fugitive emissions within 24 hours of the initial observation. If the opacity standard is exceeded, the owner or operator shall report the exceedance to the District, pursuant to Regulation 1.07, and take all practicable steps to eliminate the exceedance. Subsequent visible emission surveys shall be conducted as indicated in 2.a.i.
- iv. While combusting No. 2 fuel oil, the owner or operator shall conduct a daily one-minute visible emissions survey of Emission Point 909. When visible emissions are observed from this point, a certified opacity reader shall perform a Method 9 for stack emissions within one working day. Any Method 9 visible emissions tests shall be conducted according to 40 CFR 60, Appendix A. All visible emissions surveys and tests shall be conducted during normal operation of the Emission Unit.

- b. **PM:** See Additional Condition 3.b.
- c. **NO<sub>x</sub>:** The owner or operator shall comply with the NO<sub>x</sub> RACT Plan attached to this permit.
- d. **SO<sub>2</sub>:** See Additional Condition 3.d.

**3. Record Keeping** (Regulation 2.16, section 4.1.9.2)

- a. **Opacity:** The owner or operator shall maintain records of the results of all visible emissions surveys and tests. Records of the results of any visible emissions survey shall include the date and time of the survey, the name of the person conducting the survey, and whether or not visible emissions were observed. If an Emission Unit is not operated during that month then no visible emissions survey or test needs to be performed.
- b. **PM:** The owner or operator shall keep records of the type of fuel combusted and hours of operation to demonstrate compliance with PM emission limit.
- c. **NO<sub>x</sub>:** The owner or operator shall comply with the NO<sub>x</sub> RACT Plan attached to this permit.
- d. **SO<sub>2</sub>:** The owner or operator shall keep records of the quantity of No. 2 fuel oil combusted and shall retain vendor-certified fuel analysis for each shipment of No. 2 fuel oil.

**4. Reporting** (Regulation 2.16, section 4.1.9.3)

- a. **Opacity:** The owner or operator shall include, at a minimum, the following information in the semi-annual compliance monitoring reports for opacity:
  - i. Emission Unit ID number and Stack ID Number;
  - ii. The beginning and ending date of the reporting period;
  - iii. The date, time, and result of each Method 9 or Method 22 conducted (or a negative declaration if none); and
  - iv. Description of any corrective action taken pursuant to Additional Condition 2.a.iii.
- b. **PM:** The owner or operator shall include, at a minimum, the following information in the semi-annual compliance monitoring reports for PM:
  - i. Emission Unit/Point ID Number;
  - ii. The beginning and ending date of the reporting period;

- iii. Identification of all periods of exceedances of the PM emission limit including the quantity of excess emissions;
  - iv. Reason for excess emissions; and
  - v. Description of corrective action taken to prevent future exceedance.
- c. **NO<sub>x</sub>:** The owner or operator shall comply with the NO<sub>x</sub> RACT Plan attached to this permit.
- d. **SO<sub>2</sub>:** The owner or operator shall include, at a minimum, the following information in the semi-annual compliance monitoring reports for SO<sub>2</sub>:
- i. Emission Unit/Point ID Number;
  - ii. The beginning and ending date of the reporting period;
  - iii. Identification of all periods of exceedances of the SO<sub>2</sub> emission limit including the quantity of excess emissions;
  - iv. Reason for excess emissions; and
  - v. Description of corrective action taken to prevent future exceedance.

**Emission Unit U87: Gasoline Storage Tanks****U87 Applicable Regulations:**

<b>Federally Enforceable Regulations</b>		
<b>Regulation</b>	<b>Title</b>	<b>Applicable Sections</b>
7.15	Standards of Performance for Gasoline Transfer to New Service Station Storage Tanks ( Stage One Vapor Recovery )	1 through 6

<b>District Only Enforceable Regulations</b>		
<b>Regulation</b>	<b>Title</b>	<b>Applicable Sections</b>
5.14	Hazardous Air Pollutants and Source Categories	1 and 2

**U87 Allowable Emissions:**

Subject only to equipment standards; see Additional Condition 1.

**U87 Components:**

Tank No.	Description
128	Aboveground Gasoline Storage Tank, AP1; 300 gal
900	Underground Gasoline Storage Tank, AP26; 6000 gal

**U87 Additional Conditions**1. **Standards** (Regulation 2.16, section 4.1.1)

Storage tanks shall be equipped with the following:

- a. A submerged fill pipe;
- b. If the gasoline storage tank is equipped with a separate gauge well, a gauge well drop tube shall be installed which extends to within six inches of the bottom of the tank;
- c. Vent line restrictions on the affected facility; and

- d. Vapor balance system and vapor tight connections on the liquid fill and vapor return hoses. The cross-sectional area of the vapor return hose and any other vapor return passages in the circuit connecting the vapor space in the service station tank to that of the truck tank must be at least 50% of the liquid fill hose cross-sectional area for each tank and free of flow restrictions to achieve acceptable recovery. The vapor balance equipment must be maintained according to the manufacturer's specifications. The type, size and design of the vapor balance system are subject to the approval of the District.
2. **Monitoring** (Regulation 2.16, section 4.1.9.1.2)  
  
There are no monitoring requirements.
3. **Record Keeping** (Regulation 2.16, section 4.1.9.2)  
  
There are no record keeping requirements.
4. **Reporting** (Regulation 2.16, section 4.1.9.3)  
  
There are no reporting requirements.

**Emission Unit U89:** VOC Storage Tanks installed before 1 September 1976**U89 Applicable Regulations:**

<b>Federally Enforceable Regulations</b>		
<b>Regulation</b>	<b>Title</b>	<b>Applicable Sections</b>
6.13	Standards of Performance for Existing Storage Vessels for Volatile Organic Compounds	1 through 5

<b>District Only Enforceable Regulations</b>		
<b>Regulation</b>	<b>Title</b>	<b>Applicable Sections</b>
5.11	Standards of Performance for Existing Sources Emitting Toxic Air Pollutants	1 through 6
5.14	Hazardous Air Pollutants and Source Categories	1 and 2

**U89 Allowable Emissions:**

<b>Pollutant</b>	<b>Limit/Standard</b>
VOC	If material as stored has a true vapor pressure greater than 1.5 psia, the tank must be equipped with a submerged fill pipe; Regulation 6.13, Section 3.
TAPs	< ASL; Regulation 5.11, Sections 1 and 6

**U89 Components:**

Tank No.	Description
504	AP5-AGS Polyl Tank - silicone additive storage; 6000 gal
307	AP3-Fluid Bed Clean Out Tank; 1200 gal

**U89 Additional Conditions**

- Standards** (Regulation 2.16, section 4.1.1)

- a. **VOC** (Regulation 6.13, Section 3.3) The owner or operator of any storage vessel to which this regulation applies shall store VOCs in vessels equipped with a permanent submerged fill pipe, if the true vapor pressure of the VOC, as stored, is equal to or greater than 1.5 psia.
  - b. **TAPs**(Regulations 5.11, Sections 1 and 6) When determining the adjusted significant levels of individual pollutants at a source, the height of release (H) used to enter the table in Appendix C shall be a weighted average derived by dividing the sum of the products of emission rates and heights of release of the individual points of release by the total emission rate of a pollutant from all points of release. If the weighted height of release falls between two values in the table in Appendix C, the lesser value shall be used.
2. **Monitoring** (Regulation 2.16, section 4.1.9.1.2)
  - a. **VOC:** There are no monitoring requirements for this pollutant.
  - b. **TAPs:** See Additional Condition 3.b.
3. **Record Keeping** (Regulation 2.16, section 4.1.9.2)
  - a. **VOC:** There are no record keeping requirements for this pollutant.
  - b. **TAPs:** The owner or operator shall evaluate and document material changes to demonstrate that the emission levels established during compliance demonstration are not exceeded; and make these records available to the District upon request. If there is an increase in emission levels, the owner or operator shall demonstrate that emissions do not exceed the adjusted significant level (ASL), based on potential to emit (PTE).
4. **Reporting Requirements** (Regulation 2.16, section. 4.1.9.3)
  - a. **VOC:** There are no reporting requirements for this pollutant.
  - b. **TAPs:** There are no reporting requirements for this pollutant.



**Emission Unit U90:** VOC Storage Tanks installed after 19 April 1972**U90 Applicable Regulations:**

<b>Federally Enforceable Regulations</b>		
<b>Regulation</b>	<b>Title</b>	<b>Applicable Sections</b>
7.12	Standards of Performance for New Storage Vessels for Volatile Organic Compounds	1 through 5, 7 and 8

<b>District Only Enforceable Regulations</b>		
<b>Regulation</b>	<b>Title</b>	<b>Applicable Sections</b>
5.12	Standards of Performance for New Sources Emitting Toxic Air Pollutants	1 through 5
5.14	Hazardous Air Pollutants and Source Categories	1 and 2

**U90 Allowable Emissions:**

<b>Pollutant</b>	<b>Limit/Standard</b>
VOC	If material as stored has a true vapor pressure greater than 1.5 psia, the tank must be equipped with a submerged fill pipe; Regulation 7.12, Section 3.
TAPs	< ASL; Regulation 5.12, Section 5

**U90 Components:**

<b>Tank No.</b>	<b>Description</b>
409	AP4-AGS Paint Storage Tank; 6000 gal
410	AP4-AGS Paint Dump Tank; 3450 gal
519	AP5-AGS ISO Day Tank; 500 gal
521	AP5-AGS Master Batch Day Tank; 500 gal
515	AP5-AGS ISO Day Tank; 500 gal
517	AP5-AGS Master Batch Day Tank; 500 gal
505	AP5-AGS ISO Storage Tank; 32000 gal
506	AP5-AGS Polyl Storage Tank; 8000 gal
507	AP5-AGS Master Batch Hold Tank; 16000 gal

508	AP5-AGS Master Batch mix Tank; 8000 gal
524	AP5-AGS Polycat Storage Tank; 10000 gal
522	AP5-AGS Master Batch Day Tank; 500 gal
523	AP5-AGS ISO Day Tank; 500 gal
509	AP5-AGS ISO Day Tank; 300 gal
510	AP5-AGS Master Batch Tank; 300 gal

## U90 Additional Conditions

### 1. **Standards** (Regulation 2.16, section 4.1.1)

- a. **VOC** (Regulation 7.12, Section 3.3) The owner or operator of any storage vessel to which this regulation applies shall store VOCs in vessels equipped with a permanent submerged fill pipe, if the true vapor pressure of the VOC, as stored, is equal to or greater than 1.5 psia.
- b. **TAPs** (Regulation 5.12, Sections 1 and 5) When determining the adjusted significant levels of individual pollutants at a source, the height of release (H) used to enter the table in Appendix C shall be a weighted average derived by dividing the sum of the products of emission rates and heights of release of the individual points of release by the total emission rate of a pollutant from all points of release. If the weighted height of release falls between two values in the table in Appendix C, the lesser value shall be used.

### 2. **Monitoring** (Regulation 2.16, section 4.1.9.1.2)

- a. **VOC:** There are no monitoring requirements for this pollutant.
- b. **TAPs:** See Additional Condition 3.b.

### 3. **Record Keeping** (Regulation 2.16, section 4.1.9.2)

- a. **VOC:** There are no record keeping requirements for this pollutant.
- b. **TAPs:** The owner or operator shall evaluate and document material changes to demonstrate that the emission levels established during compliance demonstration are not exceeded; and make these records available to the District upon request. If there is an increase in emission levels, the owner or operator shall demonstrate that emissions do not exceed the adjusted significant level (ASL), based on potential to emit (PTE).

### 4. **Reporting Requirements** (Regulation 2.16, section. 4.1.9.3)

- a. **VOC:** There are no reporting requirements for this pollutant.
- b. **TAPs:** There are no reporting requirements for this pollutant.

**Emission Unit U91:** Lime Silo Filling (AP24)**U91 Applicable Regulations:**

<b>Federally Enforceable Regulations</b>		
<b>Regulation</b>	<b>Title</b>	<b>Applicable Sections</b>
6.09	Standards of Performance for Existing Process Operations	1 through 3

**U91 Allowable Emissions:**

<b>Pollutant</b>	<b>Limit/Standard</b>
Opacity	Less than 20%; Regulation 6.09, section 3.1
PM	2.58 lbs/hour; Regulation 6.09, Section 3

**U91 Components:**

911 Lime silo

Pneumatic conveying system

**Control Device:**

1150 CFM baghouse

**U91 Additional Conditions**

1. **Standards** (Regulation 2.16, section 4.1.1)
  - a. **Opacity**(Regulation 6.09, section 3.1): The owner or operator shall not allow or cause the opacity from this silo and associated components to equal or exceed 20%
  - b. **PM**(Regulation 6.09, section 3.2): The owner or operator shall not allow the emission of PM to exceed 2.58 lbs/hr.
2. **Monitoring** (Regulation 2.16, section 4.1.9.1.2)

a. **Opacity**

- i. To demonstrate compliance with the opacity standard, the owner or operator shall conduct a daily one-minute visible emissions survey, during normal operation and daylight hours, of the PM Emission Points (stacks). No more than four Emission Points shall be observed simultaneously.
- ii. For Emission Points without observed visible emissions during twelve consecutive operating weeks, the owner or operator may elect to conduct a weekly one-minute visible emission survey, during normal operation and daylight hours. No more than four Emission Points shall be observed simultaneously.
- iii. At Emission Points where visible emissions are observed, the owner or operator shall initiate corrective action within eight hours of the initial observation. If the visible emissions persist, the owner or operator shall perform or cause to be performed a Method 9 for stack emissions or Method 22 for fugitive emissions within 24 hours of the initial observation. If the opacity standard is exceeded, the owner or operator shall report the exceedance to the District, pursuant to Regulation 1.07, and take all practicable steps to eliminate the exceedance. Subsequent visible emission surveys shall be conducted as indicated in Additional Condition 2.a.i.

b. **PM:** See Additional Condition 3.b.

3. **Record Keeping** (Regulation 2.16, section 4.1.9.2)

- a. **Opacity:** Records of the results of all visible emission surveys and tests performed shall be maintained and shall include the date and time of the survey; the name of the person conducting the survey; and whether visible emissions were observed. If an Emission Point is not being operated during a given week (or month, as appropriate), then no visible emission survey needs to be performed and a negative declaration may be entered in the record.
- b. **PM:** The owner or operator shall maintain records of daily use rates and daily hours of operations to demonstrate compliance with PM emission limit.

4. **Reporting** (Regulation 2.16, section. 4.1.9.3)

- a. **Opacity:** The owner or operator shall include, at a minimum, the following information in the semi-annual compliance monitoring reports for opacity:
  - i. Emission Unit ID number and Stack ID Number;
  - ii. The beginning and ending date of the reporting period;
  - iii. The date, time, and result of each Method 9 or Method 22 conducted (or a negative declaration if none); and

- iv. Description of any corrective action taken pursuant to Additional Condition 2.a.iii.
- b. **PM:** The owner or operator shall include, at a minimum, the following information in the semi-annual compliance monitoring reports for PM:
  - i. Emission Unit/Point ID Number;
  - ii. The beginning and ending date of the reporting period;
  - iii. Identification of all periods of exceedances of the PM emission limit including the quantity of excess emissions;
  - iv. Reason for excess emissions; and
  - v. Description of corrective action taken to prevent future exceedance.

**NO<sub>x</sub> RACT Plan - Amendment 1**

1. The oxides of nitrogen (NO<sub>x</sub>, expressed as NO<sub>2</sub>) emission from each of Boiler #6 and Boiler #7 shall not exceed 0.20 pound per million Btu of heat input.
2. If either of Boiler #6 or Boiler #7 has a seasonal capacity factor greater than 15.0%, then GE Appliances shall, prior to operating that boiler during any subsequent ozone control season, conduct a performance test for NO<sub>x</sub> for that boiler in conformance with the requirements of NO<sub>x</sub> RACT Plan Element (Element) No. 5. GE Appliances shall conduct a performance test for NO<sub>x</sub> for Boiler #6 in conformance with the requirements of Element No. 5 prior to May 1, 2001.
3. As used in this NO<sub>x</sub> RACT Plan, the term “seasonal capacity factor” means the ratio between the actual heat input to a boiler from fuel combusted during the period May 1 through September 30 (ozone control season) and the potential heat input to the boiler had it been operated for 24 hours per day for each day during the ozone control season at the maximum steady state design heat input capacity. The maximum heat input capacity provided by the manufacturer shall be used unless GE Appliances determines the maximum heat input capacity using the heat loss method described in sections 5 and 7.3 of the ASME *Power Test Codes* 4.1.
4. If a boiler is required to conduct a performance test in two consecutive years and if the requirements of Regulation 6.42 *Reasonably Available Control Technology Requirements for Major Volatile Organic Compound- and Nitrogen Oxides-Emitting Facilities* section 5.1 are met, and subject to the annual performance test schedule reinstitution provision, then subsequent performance testing may be done on a biennial schedule.
5. Performance testing shall meet the following requirements:
  - A. Emissions concentrations and the mass determinations shall be obtained using Reference Methods of 40 CFR Part 60 Appendix A. The following methods shall be used:
    - (1) Method 1 or 1A, which furnishes guidance in site and traverse selection for sampling velocity at traverse points in stationary sources,
    - (2) Method 2, 2A, 2B, 2C, 2D, 2E, 2F, 2G, or 2H, which applies to measurements of gas volumetric flow rates,
    - (3) Method 3, 3A, 3B, or 3C, which is applicable for determining the concentrations of one or more of the following gases: carbon dioxide, O<sub>2</sub>, CO, nitrogen, and methane,
    - (4) Method 4, which determines the moisture content in stack gases, and
    - (5) Method 7, 7A, 7B, 7C, 7D, or 7E, which provides the analytical method for determining the concentration of NO<sub>x</sub> emissions from stationary sources.

- B. The use of other Reference Methods that are added to 40 CFR Part 60 Appendix A, alternative tests, or modifications to the Reference Methods listed in Element No. 5.A. may be proposed by GE Appliances as part of the testing plan required by Element No. 5.D. Such methods may be used if approved in writing by the District.
  - C. Performance testing shall meet the requirements of Regulation 1.04 *Performance Tests* that are not addressed in this Element.
  - D. A notification of intent to conduct a performance test shall be submitted to the District at least 25 working days in advance of the projected starting date for the performance test. The notification shall include the proposed test methods to be used.
  - E. If a pre-test conference to discuss the proposed test methods is deemed necessary by the District, a pre-test conference shall be arranged by District personnel.
  - F. At least 10 working days' prior notice of the scheduled starting date for the performance test shall be provided to the District.
  - G. A performance test report shall be submitted to the District within 60 days of completion of performance testing. The report shall include the calculations used to determine emissions. The NO<sub>x</sub> emission rate shall be expressed in both pounds per hour and pounds per million Btu formats. The raw data shall be retained by GE Appliances for a minimum of 5 years and made available to the District upon request. Selected portions of the raw data used to calculate the emissions shall be included in the report in a format provided by the District.
6. Each boiler of the group Boiler #1, Boiler #2, Boiler #3, Boiler #4, and Boiler #5 shall comply with one of the following options:
- A. Option 1: The boiler shall not have a seasonal capacity factor greater than 10.0%.
  - B. Option 2: The NO<sub>x</sub> (expressed as NO<sub>2</sub>) emission from the boiler shall not exceed 0.70 pound per million Btu of heat input.
7. GE Appliances shall, before March 1, 2001, notify the District in writing as to which option will be applicable to each of Boiler #1, Boiler #2, Boiler #3, Boiler #4, and Boiler #5 starting March 1, 2001. If GE Appliances decides to switch from the initial option for a boiler, then GE Appliances shall notify the District in writing, before the date of implementing the other option, of its decision to switch to that option for that boiler.
8. If any boiler of the group Boiler #1, Boiler #2, Boiler #3, Boiler #4, and Boiler #5 has a seasonal capacity factor greater than 10.0%, then GE Appliances shall, prior to operating that boiler during any subsequent ozone control season, conduct a performance test for NO<sub>x</sub> for that boiler in conformance with the requirements of Element No. 5. If a performance test is required for a boiler in two consecutive years and if the requirements of Regulation 6.42 *Reasonably Available Control Technology Requirements for Major Volatile Organic*

*Compound- and Nitrogen Oxides-Emitting Facilities* section 5.1 are met, and subject to the annual performance test schedule reinstitution provision, then subsequent performance testing may be done on a biennial schedule.

9. GE Appliances shall make a record of the type, heat content, and amount of fuel combusted during each day of operation during the ozone control season of each boiler included in this NO<sub>x</sub> RACT Plan. GE Appliances shall, at the end of each month during the ozone control season, calculate and record for each boiler its seasonal capacity factor. Each record shall be maintained for a minimum of 5 years and made available to the District upon request.
10. GE Appliances shall, within 12 months prior to the beginning of the ozone control season or prior to operating Boiler #6 during the ozone control season, perform and undertake corrections as necessary, and make a record of the following boiler maintenance activities:
  - A. Inspect, and either tighten or replace, the seals in the air passage to eliminate visible gaps,
  - B. Inspect burner ring,
  - C. Inspect refractory, remove any residue present, and make repairs necessary to create a smooth wall surface,
  - D. Inspect and blow sensing lines on the LFG pressure regulator, and
  - E. Inspect and check BMS electronic combustion control circuit board and terminal connections.
11. If all of the boilers of the group Boiler #1, Boiler #2, Boiler #3, Boiler #4, and Boiler #5 are operating under Option 1 of Element No. 6, then GE Appliances shall, before May 1 of each year, notify the District in writing as to which boiler of this group will be the designated primary backup boiler for that year's ozone control season. Additionally, GE Appliances shall, within 12 months prior to the beginning of the ozone control season or prior to operating the designated backup boiler during the ozone control season, perform and undertake corrections as necessary, and make a record of the following boiler maintenance activities on the designated primary backup boiler:
  - A. Rebuilding the stoker mechanism,
  - B. Inspecting and either tightening or replacing the seals in the air passage to eliminate visible gaps,
  - C. Punching out all blocked grate holes,
  - D. Inspecting and repairing grate dampers as needed to make them fully functional,



- E. Inspecting interior wall refractory and removing slag or making repairs necessary to create a smooth wall surface, or both,
  - F. Removing slag from over-fire air nozzles,
  - G. Replacing any clogged over-fire air nozzles,
  - H. Inspecting and cleaning or repairing electronic combustion controls as needed to make them operational,
  - I. Cleaning heavy ash from louvers, induced draft fans, and forced air fans, and
  - J. Setting-up and balancing the rebuilt stoker mechanism to maximize boiler efficiency.
12. GE Appliances shall keep a record identifying all deviations from the requirements of this NO<sub>x</sub> RACT Plan and shall submit to the District a written report of all deviations that occurred during the preceding semi-annual period. Semi-annual periods shall run from January 1 to June 30 and July 1 to December 31. The report shall contain the following information:
- A. The boiler number,
  - B. The beginning and ending date of the reporting period,
  - C. Identification of all periods during which a deviation occurred,
  - D. A description, including the magnitude, of the deviation,
  - E. If known, the cause of the deviation, and
  - F. A description of all corrective actions taken to abate the deviation.
- If no deviation occurred during the semi-annual period, the report shall contain a negative declaration. Each report shall be submitted within 60 days following the end of the semi-annual period.
13. GE Appliances shall include in each report pursuant to Element No. 12 a summary of the boiler maintenance activities required by Elements No. 10 and 11 that occurred during the preceding semi-annual period.
14. GE Appliances shall, before May 1, 2001, submit to the District a written description of daily activities and procedures that may be conducted by the boiler operators to ensure proper operation of the boilers used during the ozone control season.
15. In lieu of the requirements in this NO<sub>x</sub> RACT Plan, GE Appliances may comply with alternative requirements regarding emission limitations, equipment operation, test methods, monitoring, record keeping, or reporting, provided the following conditions are met:

- A. The alternative requirements are established and incorporated into an operating permit pursuant to a Title V Operating Permit issuance, renewal, or significant permit revision process as established in Regulation 2.16,
- B. The alternative requirements are consistent with the streamlining procedures and guidelines set forth in section II.A. of *White Paper Number 2 for Improved Implementation of the Part 70 Operating Permits Program*, March 5, 1996, U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards. The overall effect of compliance with alternative requirements shall consider the effect on an intrinsic basis, such as pounds per million Btu,
- C. The U.S. Environmental Protection Agency (EPA) has not objected to the issuance, renewal, or revision of the Title V Operating Permit, and either
- D. If the public comment period preceded the EPA review period, then the District had transmitted any public comments concerning the alternative requirements to EPA with the proposed permit, or
- E. If the EPA and public comment periods ran concurrently, then the District had transmitted any public comments concerning the alternative requirements to EPA no later than 5 working days after the end of the public comment period.

The District's determination of approval of any alternative requirements is not binding on EPA. Noncompliance with any alternative requirement established pursuant to the Title V Operating Permit process constitutes a violation of this NO<sub>x</sub> RACT Plan.

History: Approved 11-8-99; effective 1-1-00; amended a1/1-17-01 effective 3-1-01.

**Solvent Metal Cleaning Equipment****Applicable Regulations**

<b>Federally Enforceable Regulations</b>		
<b>Regulation</b>	<b>Title</b>	<b>Applicable Sections</b>
7.18	Standards of Performance for New Solvent Metal Cleaning Equipment	1 through 4

**Allowable Emissions**

<b>Pollutant</b>	<b>Limit/Standard</b>
VOC	See AC 1.

**Components****Solvent Metal Cleaning Equipment****Additional Conditions:**

1. **Standards** (Regulation 7.18, Sections 3 and 4)
  - a. The cleaner shall be equipped with a cover. If the VOC volatility is greater than 15 mm Hg measured at 100EF or if the VOC is agitated or heated, then the cover shall be designed so that it can be easily operated with one hand.
  - b. The cleaner shall be equipped with a drainage facility such that VOC that drains off parts removed from the cleaner will return to the cleaner. If the VOC volatility is greater than 32 mm Hg measured at 100EF, then the drainage facility shall be internal so that parts are enclosed under the cover while draining. The drainage facility may be external if the District determines that an internal type cannot fit into the cleaning system.
  - c. A permanent, conspicuous label summarizing the operating requirements in Additional Condition 1.b shall be installed on or near the cleaner.
  - d. If used, the VOC spray shall be a fluid stream, not a fine, atomized, or shower type spray, at a pressure that does not cause excessive splashing.
  - e. Operating Requirements

- i. Do not dispose of waste VOC or transfer it to another party in a manner that more than 20% by weight of the waste VOC can evaporate into the atmosphere. Store waste VOC only in covered containers.
  - ii. Close degreaser cover whenever not handling a part in the cleaner.
  - iii. Drain cleaned parts until dripping ceases (15 seconds is usually necessary).
  - iv. Do not operate a cold cleaning degreaser with a solvent vapor pressure that exceeds 1.0 mm Hg (0.019 psi) measured at 20EC (68EF).
2. **Monitoring** (Regulation 2.16, section 4.1.9.1.2)

VOC: The owner or operator shall conduct weekly inspections to verify ongoing compliance with the control and operational requirements specified in Additional Condition 1.
3. **Record Keeping**

VOC: The owner or operator shall maintain records that include the following for each purchase:

  - a. The name and address of the solvent supplier;
  - b. The date of the purchase;
  - c. The type of the solvent; and
  - d. The vapor pressure of the solvent measured in mm Hg at 20EC (68EF).
  - e. Additionally, the owner or operator shall maintain records of the results of the inspection requirement specified in Additional Condition 2.
4. **Reporting**

VOC: None required.

### Permit Shield

The owner or operator is hereby granted a permit shield that shall apply as long as the owner or operator demonstrates ongoing compliance with all the conditions of this permit. Compliance with the conditions of this permit shall be deemed compliance with all applicable requirements of the regulations cited in this permit as of the date of issuance per District Regulation 2.16, section 4.6.1.1.

### Off Permit Documents

<u>Document</u>	<u>Date</u>
RMP	18 June 1999

### Alternative Operating Scenario

The company requested no alternative operating scenario in its Title V application.

### Source-wide Hazardous Air Pollutant Speciation

HAP	CAS No.	HAP	CAS No.
1,2,3-Trimethylbenzene	526-73-8	Ethylene	74-85-1
1,2,4-Trimethylbenzene	95-63-6	Methylcyclohexane	108-87-2
1,3,5-Trimethylbenzene	108-67-8	n-Hexane	110-54-3
1,3 Butadiene	106-99-0	Naphthalene	91-20-3
Benzene	71-43-2	Nonane	111-84-2
Cumene	98-82-8	Propylene	115-07-1
Cyclohexene	110-83-8	Toluene	108-88-3
Cyclohexane	110-82-7	m-Xylene	108-38-3
Cyclopentane	287-92-3	o-Xylene	95-47-6
Ethyl benzene	100-41-4	p-Xylene	106-42-3

### Insignificant Activities

The following activities identified in the Title V permit application have been determined by the District to be insignificant.

INSIGNIFICANT ACTIVITIES		
Description	Quantity	Basis
VOC storage tanks <250 gal capacity	Various	Regulation 2.02, section 2.3.24
Fuel or lubricating oils; VP <10 mm Hg	Various	Regulation 2.02, section 2.3.9.2
Portable gasoline or diesel storage tanks <500 gal	Various	Regulation 2.02, section 2.3.23
Combustion sources <10 mm Btu/hr	Various	Regulation 2.02, section 2.1.1
Fuel oil or diesel tanks; annual turnover <2 times capacity	1	Regulation 2.02, section 2.3.25
Internal combustion engines, fixed or mobile	Various	Regulation 2.02, section 2.2
Presses extruding metal/mineral/wood	Various	Regulation 2.02, section 2.3.1
Brazing, soldering, or welding equipment	Various	Regulation 2.02, section 2.3.4
Woodworking, except for conveying, hogging, or burning wood/sawdust	Various	Regulation 2.02, section 2.3.5
Resin curing ovens	Various	Regulation 2.02, section 2.3.7
Plastics compression or injection molding	Various	Regulation 2.02, section 2.3.8
Dipping operations - oils, waxes, or grease	Various	Regulation 2.02, section 2.3.9.1
Emergency relief vents - non-regulated process	Various	Regulation 2.02, section 2.3.10
Lab venting and exhausting	Various	Regulation 2.02, section 2.3.11
Vent systems restaurants and bakeries	Various	Regulation 2.02, section 2.3.12
Blast cleaning - abrasives in water	Various	Regulation 2.02, section 2.3.13

INSIGNIFICANT ACTIVITIES		
Description	Quantity	Basis
Heat treating, soaking or case hardening	Various	Regulation 2.02, section 2.3.14
Non-VOC metal or glass washing or drying	Various	Regulation 2.02, section 2.3.15
Residential/domestic equipment	Various	Regulation 2.02, section 2.3.16
Crucible or pot furnaces <450 cu. in.	Various	Regulation 2.02, section 2.3.18
Use of peanut, sunflower, canola, or cottonseed oils	Various	Regulation 2.02, section 2.3.19
Soil or groundwater remediation	Various	Regulation 2.02, section 2.3.20
Indoor PM collectors venting indoors	Various	Regulation 2.02, section 2.3.21
Plastics handling, grinding, and storage	Various	Emissions from these facilities are negligible.
Washer lid sublimation system	Various	Emissions from these facilities are negligible.
Cooling towers	Various	Chromium-based water treatment chemicals are not used; therefore 40 CFR Part 63, Subpart Q, National Emission Standards for Hazardous Air Pollutants for Industrial Process Cooling Towers does not apply.
R & D facilities	Various	Regulation 2.02, section 2.3.27
Tool and die activities	Various	Emissions from these facilities are negligible.
Salt, sand, and coal piles	Various	Emissions from these facilities are negligible.

1. Insignificant Activities are only those activities or processes falling into the general categories defined in Regulation 2.02, Section 2, and not associated with a specific operation or process for which there is a specific regulation. Equipment associated with a specific operation or process (Emission Unit) shall be listed with the specific process even though there may be no applicable requirements. Information contained in the permit and permit summary shall clearly indicate that those items identified with negligible emissions have no applicable requirements.
2. Activities identified in Regulation 2.02, Section 2, may not require a permit and may be insignificant with regard to application disclosure requirements but may still have generally applicable requirements that continue to apply to the source and must be included in the Title V permit.

- a. No facility, having been designated as an insignificant activity, shall be exempt from any generally applicable requirement which shall include a 20% opacity limit for facilities not otherwise regulated.
- b. No visible emission surveys or other monitoring shall be required for facilities designated as insignificant activities.